



- HVDC 135A at 1000VDC
- Max. switching current = 1000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- Female M5 power terminals

*Image is for illustrative purposes only. Please refer to datasheet for detail.



Contacts

Contact arrangement	SPST-NO-DM	
Contact material	T2+Ag	
Max. switching voltage	AC/DC	1000VDC
Rated load	DC1	135A 1000VDC (break only above 135A)
Max. continuous thermal current	600s	220A
	30s	490A
Max switching current	1 time only	1000A 450VDC
Initial contact resistance	max.	30mΩ (at 1A)
	typ.	1mΩ (at 1A)
Auxiliary contact (when fitted)	arrangement	SPST-NO (1 Form A)
	max. current	2A @ 30VDC / 3A @ 125VAC
	min. current	100mA @ 8VDC

Coil

Nominal voltage (see page 2)	DC	12~48VDC
Rated power consumption	5.5W @ 12VDC	

Insulation

Insulation resistance	initial	100MΩ (min.)
	life end	50MΩ (min.)
Dielectric strength	coil to contact	3500Vrms / 10mA / 1 min (at sea level)
	contact to contact	3500Vrms / 10mA / 1 min (at sea level)

General Data

Operate time at 23°C	max.	25ms
Bounce time at 23°C	max	7ms
Release time at 23°C	max.	12ms
Electrical life	ops.	Voltage and current dependent - see fig. 1
Mechanical life	ops.	2 x 10 ⁵ (ON : OFF = 1s : 9s)

Environmental

Environmental Seal	IP67	
Ambient temperature	operating	-40 to +85°C
Relative humidity	5 to 95%RH	
Shock resistance	20G peak, 11ms 1/2 sine	
Vibration resistance	20G sine peak (80 to 2000Hz)	
Dimensions	L x W x H	40 x 54 (over flanges) x 59 mm (max.)
Weight	approx.	190g ± 5g

Ordering Code

D E V R 1 3 - 5 0 6 1 - S 8 - 1 0 1 2 - R 1 / 1

Series

Coil code:

See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO*

71: SPST-NO* + Auxiliary

* Polarised - see page 2

Mounting & terminations

Bottom flange mounting base

S8: M5 Female power terminals

Coil & auxiliary contacts by flying leads

Coil wire length

R: 15.75 (400 ±10mm) (standard)

T: 5.9" (150 ±10mm)

Coil wire & auxiliary contact termination

1: None (standard)

2: Yazaki 7282-5558-10 male, fitted to coil wires only.

3. Molex mini-fit female, fitted to coil wires only.

Other terminations to special order

Version

/1: Version 1

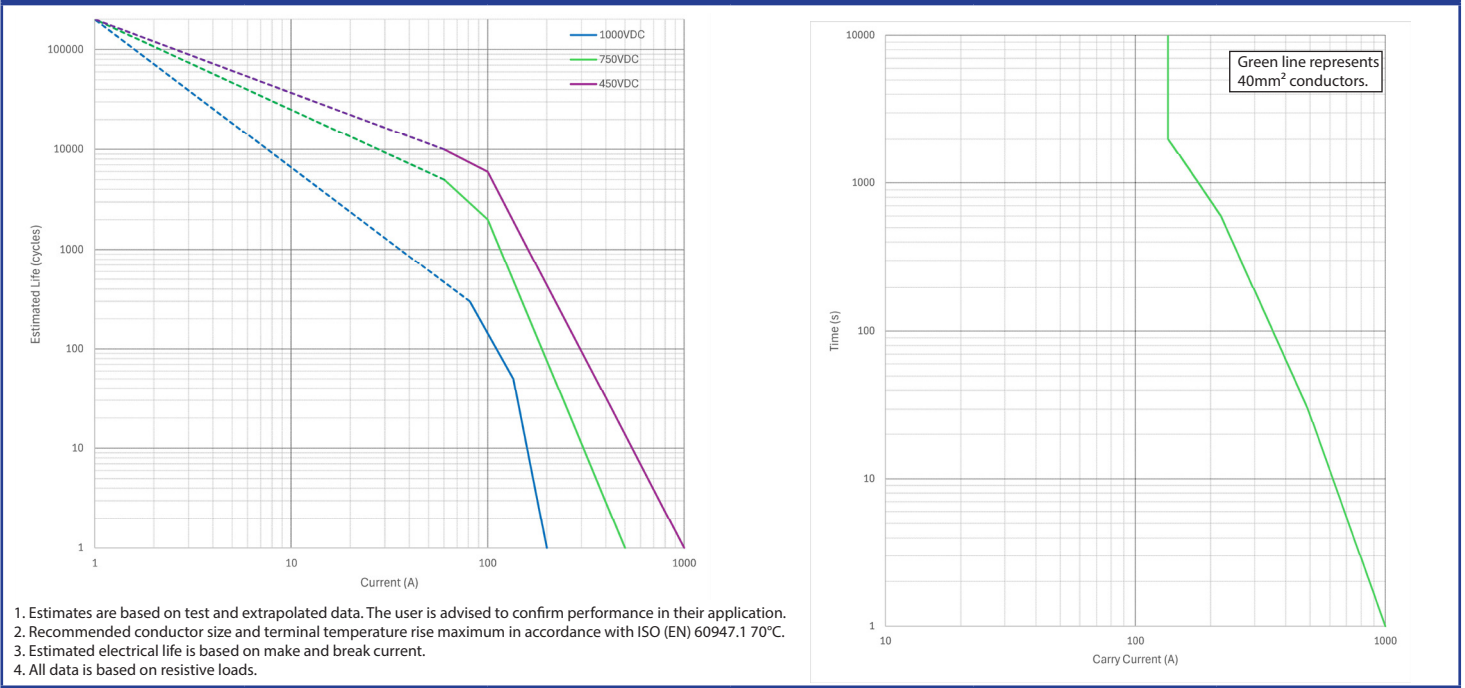
Coil Data

Table 1

Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance $\Omega \pm 10\%$ (at 23°C)	Coil current (mA)	Coil power (W at 23°C)
1012	12.0	10.2	13.2	1.2	26.0	461.5	5.5
1024	24.0	20.4	26.4	2.4	96.4	249.0	6.0
1048	48.0	40.8	52.8	4.8	392.0	122.5	5.9

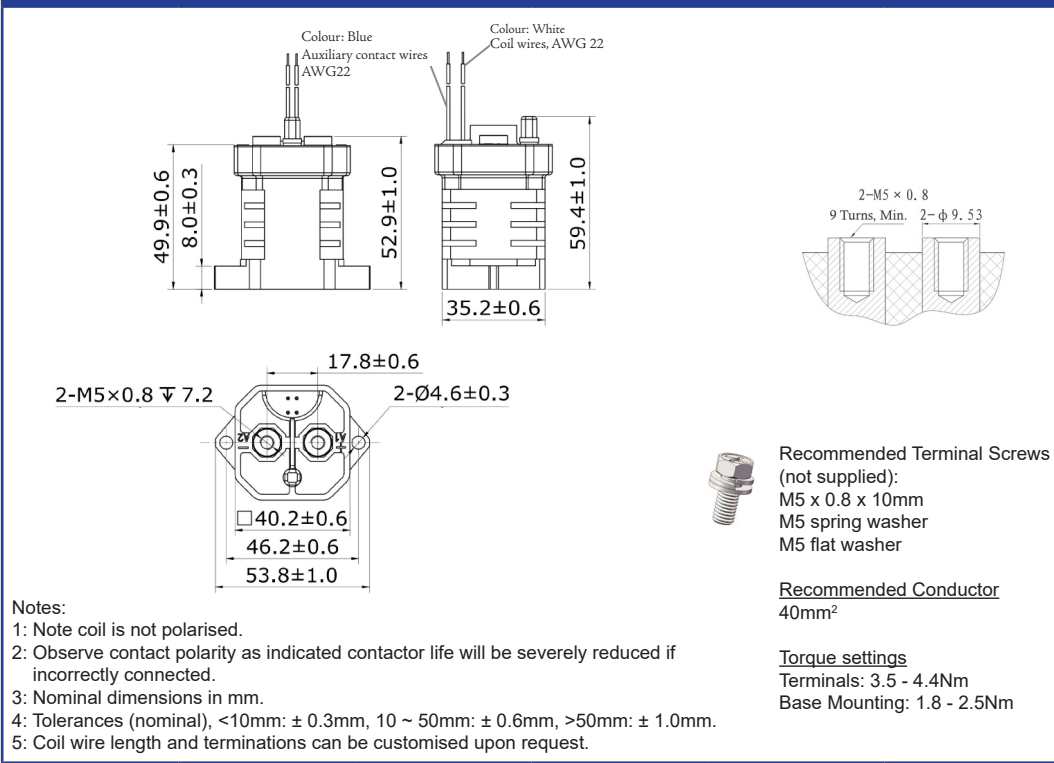
Electrical Performance

Fig. 1



Dimensions (mm)

Fig. 2



Circuit Diagram

Fig. 3

